POWER SUBWOOFER

SW-305-B/305-W

SERVICE MANUAL

KENWOOD

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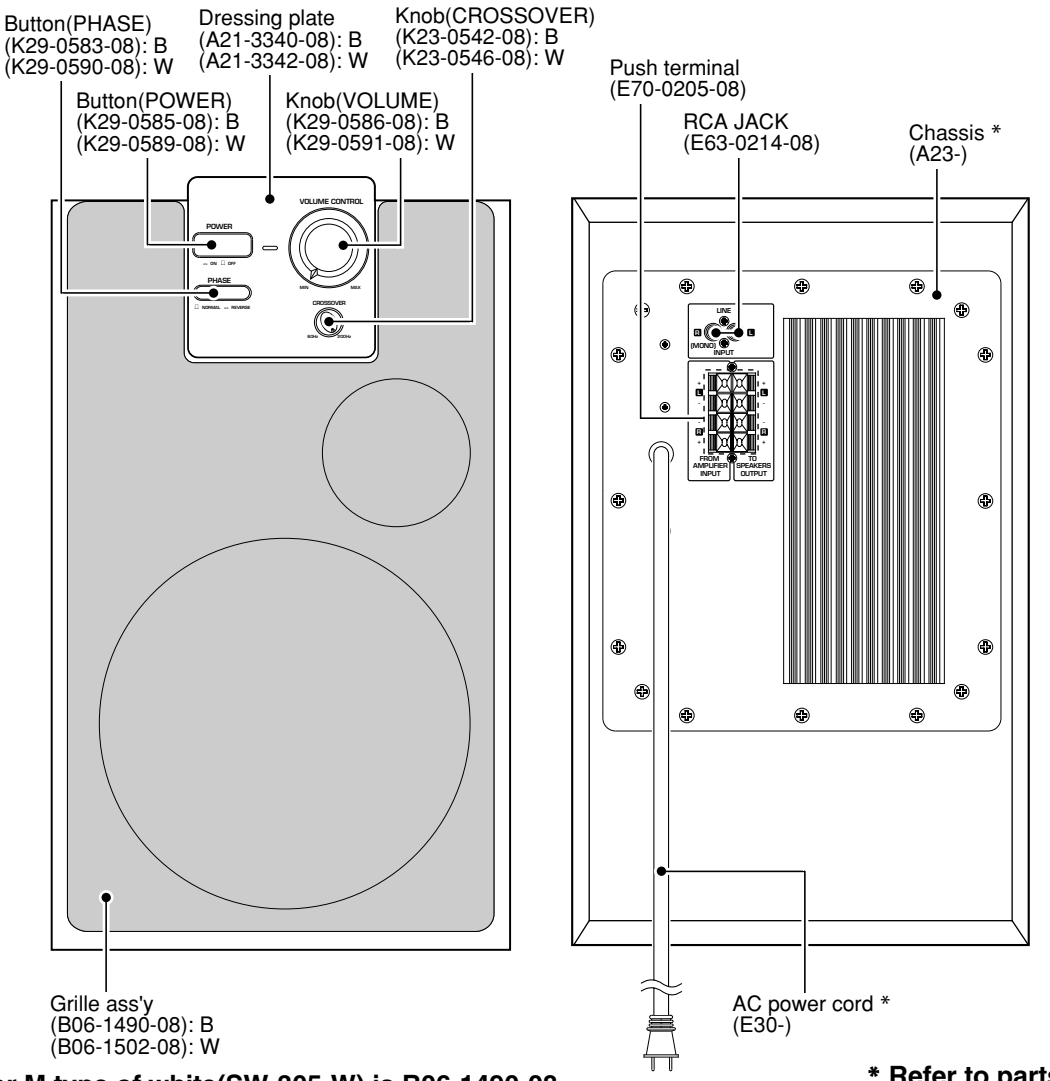

B : Black
W: White

Grille ass'y for M type of white(SW-305-W) is B06-1490-08.

*** Refer to parts list on page 7.**

SPECIFICATIONS

Type .....Subwoofer system with built-in amplifier
(Magnetically shielded)

[Amplifier]

Rated Output Power .....100 W RMS, 30 Hz ~ 200 Hz, 4 Ω
Phase Switching .....NORMAL, REVERSE
Input Sensitivity & Input Impedance
RCA-type pin-plug jack .....100 mV /12 kΩ
200 mV /12 kΩ (MONO Input)
Push-type terminals .....1.7 V /15 kΩ

[Speaker]

Enclosure .....Bass-Reflex, Floor Standing Type
Speaker Unit .....200 mm (8") Cone type
Nominal Impedance .....4 Ω

[General]

Rated Power Consumption .....90 W
Dimensions .....Width : 250 mm (9-13/16")
Height : 422 mm (16-5/8")
Depth : 408 mm (16-1/16")
Net Weight .....12.2 kg (26.9 lb)

Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

• Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

70%

SW-305-B/305-W

CONTENTS / ACCESSORIES

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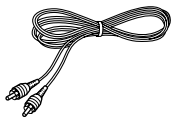
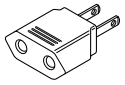
Accessories

Pin-plug cord (1)
(E30-5860-08)

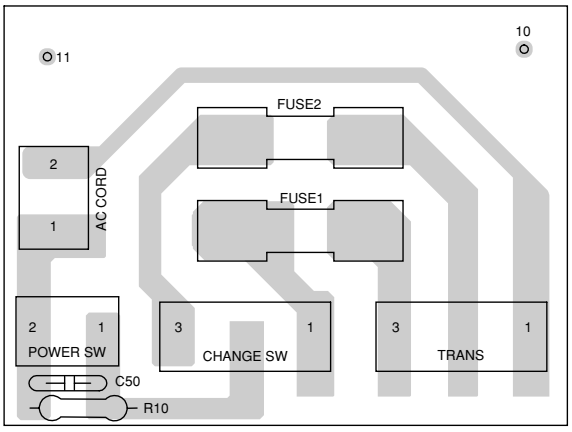


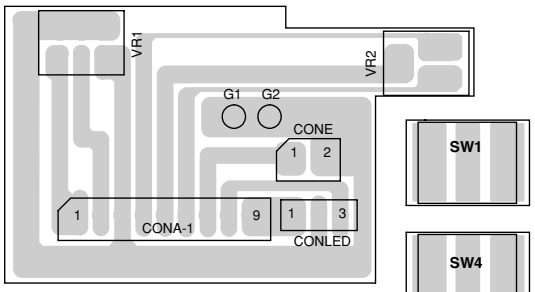
AC plug adaptor (1)
(E03-0115-05)

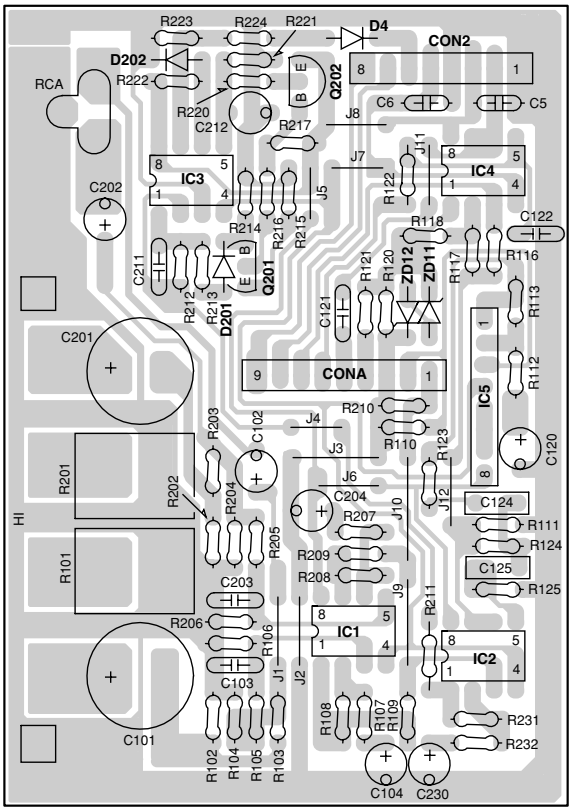


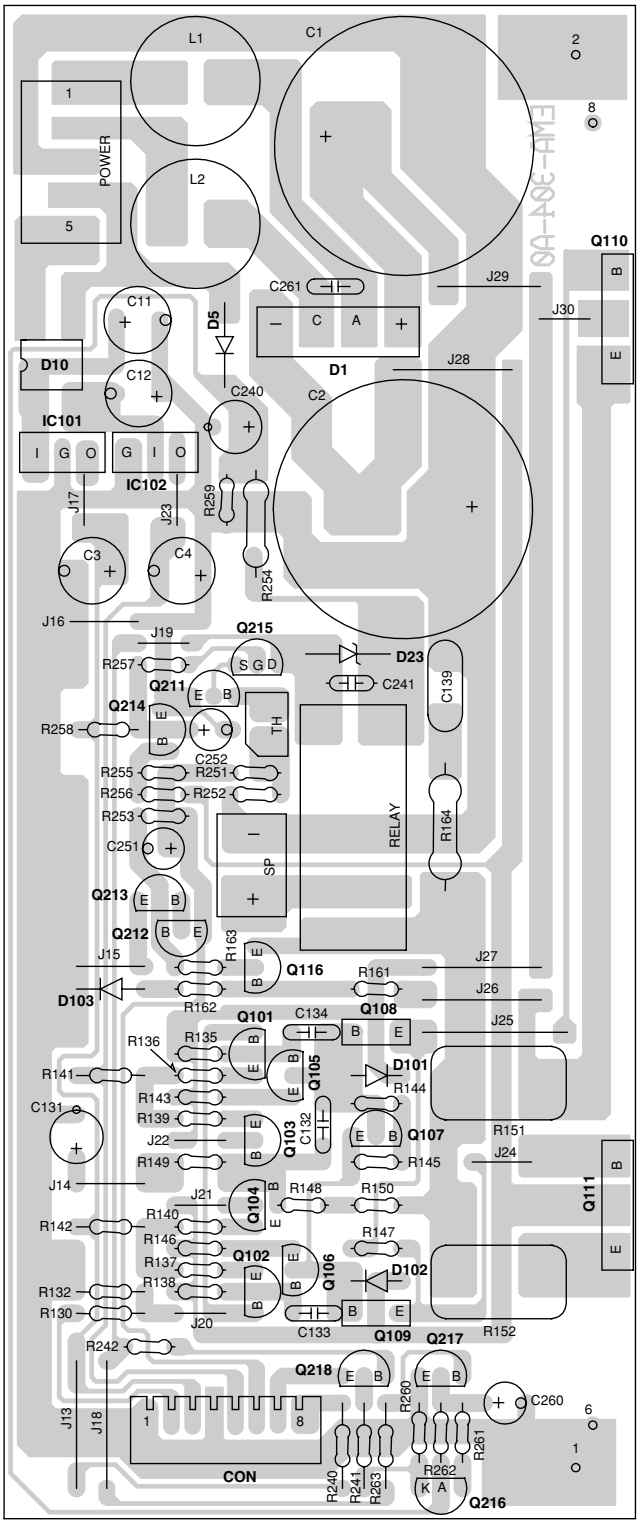
* Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary)

PC BOARD (Component side view)









Refer to the schematic diagram for the value of resistors and capacitors.

DESTINATION		F1	F2	SW3
COUNTRY	ABB.			
U.S.A.	K	NO	YES	NO
CANADA	P			
PX	Y	YES		YES
GENERAL MARKET	M			
AUSTRALIA	X	YES	NO	NO
U.K.	T			
EUROPE	E			

IC1-4 : BA4558
IC5 : BA4558N
IC101 : TA78012AP
IC102 : TA79012S

Q101,103,107,116,201, 213 : KTC3198Y
Q102,104,202,212 : KTA1266(Y)
Q105,214 : KTA1023Y
Q106,211,217,218 : KTC1027Y
Q108 : KTD600K
Q109 : KTB631K
Q110 : 2SC3284
Q111 : 2SA1303(Y)
Q215 : 2N7000
Q216 : P4M

D1 : KBL10
D4,101-103,201,202 : 1N4148
D5 : 1N4001
D10 : DB102

DZ3 : MTZJ12B
DZ11,12 : MTZJ3.3B

SIGNAL LINE
GND LINE
+B LINE
−B LINE

PHASE SW1 CONE
LED CONLED
VR1 100K(B)
VR2A 50K(C)
VR2B 50K(C)
CONA1
CONA
CON2
CON

LINE: LEFT, L OUT(+), L IN(+), L IN(-), L OUT(-)
RIGHT, R OUT(+), R IN(+), R IN(-), R OUT(-)

IC1(1/2), IC1(2/2), IC2(1/2), IC2(2/2), IC3(1/2), IC3(2/2), IC4(1/2), IC4(2/2), IC5(1/2)

Q101, Q102, Q103, Q104, Q105, Q106, Q107, Q108, Q109, Q110, Q111, Q116, Q201, Q202, Q212, Q213, Q214, Q215, Q216, Q217, Q218

D101, D102, D103, D201, D202, D1, D4, D5, D10, DZ3, DZ11, DZ12

IC101 (OUT IN GND), IC102 (GND OUT IN)

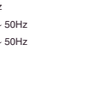
RELAY, SP1 (SP+, SP-)

POWER TRANSFORMER (240V, 120V)

*FUSE1 T1.25AL 250V
*FUSE2 T2.5AL 250V
AC110-120V ↔ AC220-240V
*SW3 VOLTAGE SELECTOR
SW2 POWER
MCP-002-51 THERMOSTAT

2SA1303
2SC3284

BA4558



BA4558N

(K,P) : AC120V 60Hz
(Y,M) : AC110-120V/220-240V~ 50/60Hz
(X) : AC240V~ 50Hz
(T,E) : AC230V~ 50Hz

SW-305

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Y19-5750-10

SW-305-B/305-W

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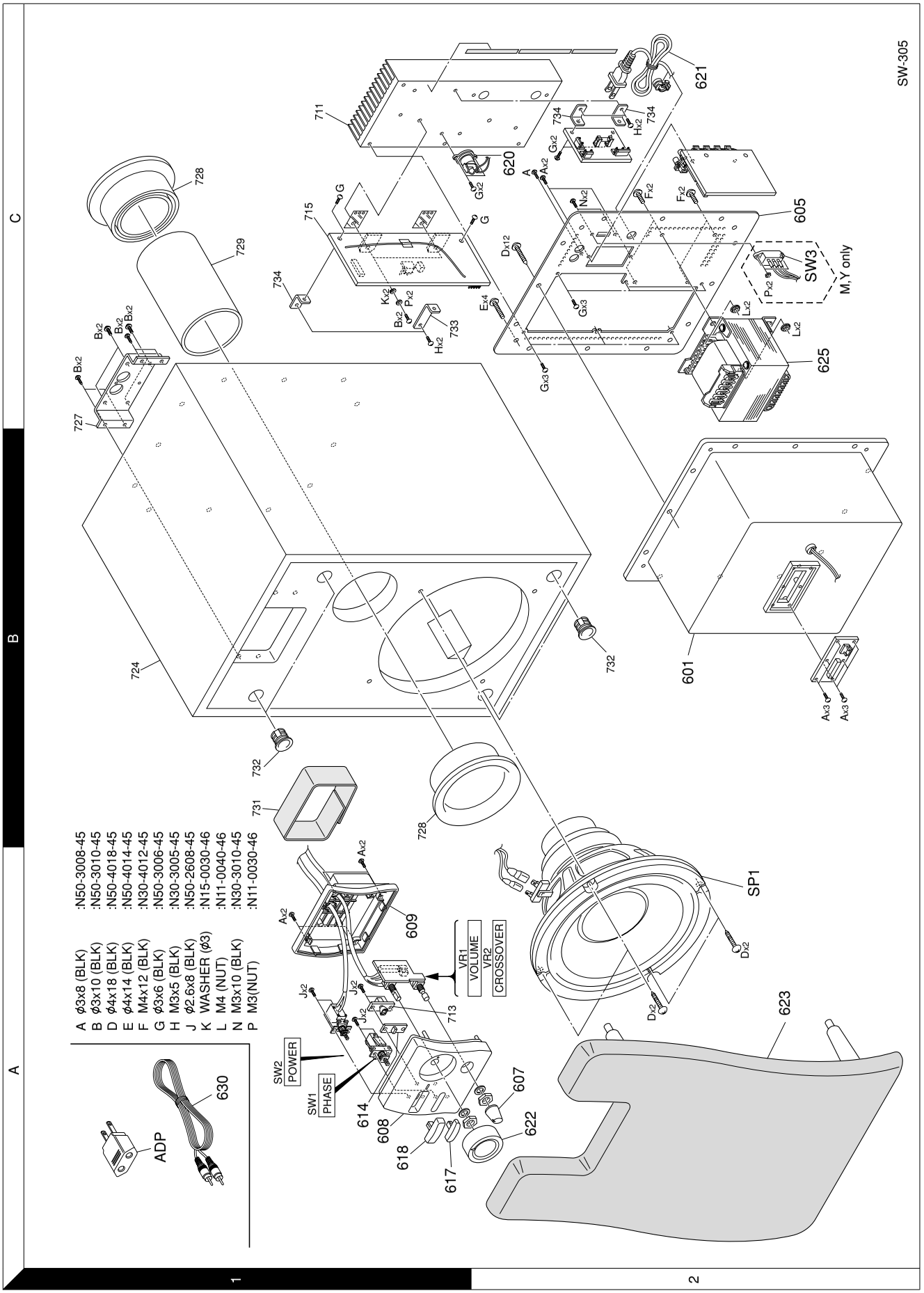
SW-305-B/305-W

EXPLODED VIEW



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
SW-305 W:WHITE/B:BLACK							
601	2B	✻	A02-2537-08	AMP BOX	BDCC-0010-01		
605	2C	✻	A23-5505-08	CHASSIS,REAR,B	BCCS-0570-03	KP	
605	2C	✻	A23-5506-08	CHASSIS,REAR,B	BCCS-0569-02	Y	
605	2C	✻	A23-5511-08	CHASSIS,REAR,B	BCCS-0569-01	M	
605	2C	✻	A23-5512-08	CHASSIS,REAR,B	BCCS-0570-01	ET	
605	2C	✻	A23-5513-08	CHASSIS,REAR,B	BCCS-0570-02	X	
607	2A	✻	K23-0542-08	CROSSOVER KNOB	BDKN-0020-01	B	
607	2A	✻	K23-0546-08	CROSSOVER KNOB	BDKN-0021-01	W	
608	1A	✻	A21-3340-08	DRESSING PLATE		B	
608	1A	✻	A21-3342-08	DRESSING PLATE		W	
609	1A	✻	A02-2536-08	CONTROL BOTTOM	BDCC-0009-01	B	
609	1A	✻	A02-2540-08	CONTROL BOTTOM	BDCC-0011-01	W	
614	1A	✻	B19-1292-08	LENS	BDDS-0113-01		
617	1A	✻	K29-0583-08	PHASE BUTTON	BDBT-0016-01	B	
617	1A	✻	K29-0590-08	PHASE BUTTON	BDBT-0017-01	W	
618	1A	✻	K29-0585-08	POWER BUTTON	BDBT-0012-01	B	
618	1A	✻	K29-0589-08	POWER BUTTON	BDBT-0013-01	W	
620	2C	✻	S79-0202-08	THERMOSTAT	RTSM-NT-101NA		
⚠ 621	2C	✻	E30-5863-05	UL POWER CORD	WPLU-HPC30008	KP	
⚠ 621	2C	✻	E30-5864-05	UL POWER CORD	WPLU-HPC30007	Y	
⚠ 621	2C		E30-5865-05	UL POWER CORD	WPLU-HPC30005	ME	
⚠ 621	2C	✻	E30-5866-05	UL POWER CORD	WPLU-HPC30006	X	
⚠ 621	2C	✻	E30-5867-05	UL POWER CORD	WPLU-HPC30004	T	
622	2A	✻	K29-0586-08	VOLUME KNOB	BDKN-0018-01	B	
622	2A	✻	K29-0591-08	VOLUME KNOB	BDKN-0019-01	W	
623	2A	✻	B06-1490-08	GRILLE ASSY		B	
623	2A	✻	B06-1490-08	GRILLE ASSY		MW	
623	2A	✻	B06-1502-08	GRILLE ASSY		X/EW	
⚠ 625	2C	✻	L07-3028-05	POWER TRANS	TTG2-EPT60008	KPYMX	
⚠ 625	2C	✻	L07-3031-05	POWER TRANS	TTG2-EPT60009	ET	
630	1A		E30-5860-08	AUDIO CORD			
-			B46-0096-53	WARRANTY CARD		X	
-			B46-0310-03	WARRANTY CARD		ET	
-			B46-0328-03	WARRANTY CARD		K	
-			B46-0347-03	WARRANTY CARD		P	
-		✻	B59-1104-08	SERVICE STATIONS' LIST		Y	
-		✻	B61-1073-00	INSTRUCTION MANUAL		KPET	
-		✻	B61-1074-00	INSTRUCTION MANUAL		YMX	
-		✻	H10-8174-08	POLYSTYRENE FOARMED FIXTURE			
-		✻	H10-8175-08	POLYSTYRENE FOARMED FIXTURE			
-		✻	H51-1512-08	ITEM CARTON CASE		KPYETX	
-		✻	H51-1513-08	ITEM CARTON CASE		M	
LED		✻	B30-1836-08	LED	SDLB-SPR39MV		
SP1	2A	✻	T10-0961-05	WOOFER			
⚠ SW3	2C	✻	S62-0214-08	SILDE SWITCH	ESSL-SSB040	M	
⚠ ADP	1A		E03-0115-05	AC PLUG ADAPTER			
ELECTRICAL PARTS							
C1 ,2		✻	C90-5143-08	ELECTRO	4700UF 63WV		
C3 ,4			CE04CW1C471M	ELECTRO	470UF 16WV		
C5 ,6			CK45FB1H104Z	CERAMIC	0.10UF Z		
C11 ,2			CE04CW1C471M	ELECTRO	470UF 16WV		
⚠ C50		✻	C91-0212-08	CERAMIC	0.01UF 400WV		
C101		✻	C90-5144-08	NP-ELEC	220UF 50WV		
C102			CE04CW1H4R7M	ELECTRO	4.7UF 50WV		

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❷

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C103			CK45FB1H471K	CERAMIC	470PF	K		
C104			CE04CW1C470M	ELECTRO	47UF	16WV		
C120			CE04CW1C470M	ELECTRO	47UF	16WV		
C121		✻	C90-5145-08	MYLAR	0.056UF	100WV		
C122		✻	C90-5146-08	MYLAR	0.027UF	100WV		
C124		✻	C91-0213-08	FILM	0.18UF	63WV		
C125		✻	C91-0214-08	FILM	0.1UF	63WV		
C131			CE04CW1C101M	ELECTRO	100UF	16WV		
C132			CC45FCH1H470J	CERAMIC	47PF	J		
C133,4			CC45FSL1H820J	CERAMIC	82PF	J		
C139		✻	C90-5147-08	MYLAR	0.1UF	100WV		
C201		✻	C90-5144-08	NP-ELEC	220UF	50WV		
C202			CE04CW1H4R7M	ELECTRO	4.7UF	50WV		
C203			CK45FB1H471K	CERAMIC	470PF	K		
C204			CE04CW1C470M	ELECTRO	47UF	16WV		
C211			CK45FB1H471K	CERAMIC	470PF	K		
C212			CE04CW1C470M	ELECTRO	47UF	16WV		
C230			CE04CW1C470M	ELECTRO	47UF	16WV		
C240			CE04CW1C101M	ELECTRO	100UF	16WV		
C241			CK45FB1H104Z	CERAMIC	0.10UF	Z		
C251,2			CE04CW1C100M	ELECTRO	10UF	16WV		
C260			CE04CW1C100M	ELECTRO	10UF	16WV		
C261		✻	C90-5147-08	MYLAR	0.1UF	100WV		
-		✻	E63-0214-08	RCA JACK	JJR2-020S902			
-		✻	E70-0205-08	PUSH TERMINAL	FTP8-PPT00803			
⚠ FUSE1		✻	F53-0223-08	FUSE,1.25A	FFAD-CUL521R2		MEXYT	
⚠ FUSE2		✻	F53-0224-08	FUSE,2.5A	FFAD-CUL522R5		MKPY	
L1 ,2		✻	L90-0408-08	BAY TYPE COIL	ICCB-EBC01508			
⚠ R10		✻	R92-2356-08	FUSE RESIST	1.8M	J 1/2W		
R101		✻	R92-2358-08	CEMENT	100	J 5W		
R151,2		✻	R92-2357-08	CEMENT	0.22	J 5W		
R164			RS14DB3A4R7J	FL-PROOF RS	4.7	J 1W		
R201		✻	R92-2358-08	CEMENT	100	J 5W		
R254			RS14DB3A101J	FL-PROOF RS	100	J 1W		
VR1		✻	R31-0422-08	ROTARY MAIN VOL,RVRM-SBR2059				
VR2		✻	R31-0423-08	ROTARY MAIN VOL,RVRM-SBR2061				
⚠ RELAY		✻	S76-0210-08	RELAY	ER22-SM323D12			
SW1		✻	S90-0202-08	PUSH SWITCH	ESPL-22H14F18			
⚠ SW2		✻	S90-0203-08	POWER SWITCH	ESPP-KDCA04			
⚠ D1		✻	KBL10	DIODE				
D4			1N4148	DIODE				
D5			1N4001	DIODE				
⚠ D10		✻	DB102	DIODE				
D101-3			1N4148	DIODE				
D201,2			1N4148	DIODE				
DZ3			MTZJ12B	ZENER DIODE				
DZ11,2			MTZJ3.3B	ZENER DIODE				
IC1 -4			BA4558	IC(OP AMP X2)				
IC5			BA4558N	IC(OP AMP X2)				
⚠ IC101			TA78012AP	IC				
⚠ IC102			TA79012S	IC(VOLTAGE REGULATOR/ -12V)				
Q101			KTC3198Y	TRANSISTOR				

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PARTS LIST

✻ New Parts
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❸

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q102			KTA1266(Y)	TRANSISTOR		
Q103			KTC3198Y	TRANSISTOR		
Q104			KTA1266(Y)	TRANSISTOR		
Q105		✻	KTA1023Y	TRANSISTOR		
Q106			KTC1027Y	TRANSISTOR		
Q107			KTC3198Y	TRANSISTOR		
Q108		✻	KTD600K	TRANSISTOR		
Q109		✻	KTB631K	TRANSISTOR		
⚠ Q110		✻	2SC3284	TRANSISTOR		
⚠ Q111			2SA1303(Y)	TRANSISTOR		
Q116			KTC3198Y	TRANSISTOR		
Q201			KTC3198Y	TRANSISTOR		
Q202			KTA1266(Y)	TRANSISTOR		
Q211			KTC1027Y	TRANSISTOR		
Q212			KTA1266(Y)	TRANSISTOR		
Q213			KTC3198Y	TRANSISTOR		
Q214		✻	KTA1023Y	TRANSISTOR		
Q215		✻	2N7000	FET		
Q216		✻	P4M	TRANSISTOR STZZ-P4M		
Q217,8			KTC1027Y	TRANSISTOR		

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SW-305-B/305-W

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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